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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,961

DATE: 09/04/2002

TIME: 16:09:54

Input Set : A:\4-31890A.ST25.txt

Output Set: N:\CRF4\09042002\J081961.raw

3 <110> APPLICANT: Clarke, Lori  
 4 Gorziglia, Mario  
 5 Hallenbeck, Paul  
 6 Jakubczak, John  
 7 Kaleko, Michael  
 8 Phipps, Sandrina  
 10 <120> TITLE OF INVENTION: Novel Vector Constructs  
 12 <130> FILE REFERENCE: 4-31890A/GTI  
 14 <140> CURRENT APPLICATION NUMBER: US 10/081,961  
 C--> 15 <141> CURRENT FILING DATE: 2002-08-23  
 17 <150> PRIOR APPLICATION NUMBER: US 60/270,885  
 18 <151> PRIOR FILING DATE: 2001-02-23  
 20 <160> NUMBER OF SEQ ID NOS: 8  
 22 <170> SOFTWARE: PatentIn version 3.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 140  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Simian virus 40  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: misc\_feature  
 31 <222> LOCATION: (1)..(140)  
 32 <223> OTHER INFORMATION: Fig. 1 A  
 35 <400> SEQUENCE: 1  
 36 cttatcgata ccgtcgaaac ttgtttattg cagcttataa tggttacaaa taaagcaaca 60  
 38 caaatttcac aaataaagca tttttttcac tgcattctag ttgtggtttg tccaaactca 120  
 40 tcaatgtatc ttatcatgtc 140  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 600  
 45 <212> TYPE: DNA  
 46 <213> ORGANISM: Human adenovirus type 5  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: misc\_feature  
 50 <222> LOCATION: (1)..(600)  
 51 <223> OTHER INFORMATION: Fig. 2 - E1A transcription control region  
 54 <400> SEQUENCE: 2  
 55 catcatcaat aatatacctt attttggtt gaagccaata tgataatgag ggggtggagt 60  
 57 ttgtgacgtg gcgcgggg gctgggaacggg gcggggtgacg tagtagtggt gcggaagtgt 120  
 59 gatgttgcaa gtgtggcgga acacatgtaa gcgacggatg tggcaaaaagt gacgtttttg 180  
 61 gtgtgcgccg gtgtacacag gaagtgcacaa ttttcgcgcg gttttaggcg gatgttgtag 240  
 63 taaatttggg cgtaaccgag taagatttgg ccattttcgc gggaaaactg aataagagga 300  
 65 agtgaaatct gaataatttt gtgttactca tagcgcgtaa tatttgtcta gggccgcggg 360  
 67 gactttgacc gtttacgtgg agactcgccc aggtgttttt ctacagtggt ttccgcgttc 420  
 69 cgggtcaaag ttggcggttt attattatag tcagctgacg ttagtggtat ttatacccg 480

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71 tgagttcctc aagaggccac tcttgagtgc cagcgagtag agttttctcc tccgagccgc 540
73 tccgacaccg ggactgaaaa tgagacatat tatctgccac ggaggtgta ttaccgaaga 600
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 1802
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: viral vector construct
84 <220> FEATURE:
85 <221> NAME/KEY: misc_feature
86 <222> LOCATION: (1)..(1802)
87 <223> OTHER INFORMATION: Fig. 3 A - left end of Ar6pAE2fF sequence
90 <400> SEQUENCE: 3
91 catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt 60
93 ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcg tcaagcttat 120
95 cgataccgtc gaaacttggt tattgcagct tataatggtt acaaataaag caatagcatc 180
97 acaaatttca caaataaagc atttttttca ctgcattcta gttgtggttt gtccaaactc 240
99 atcaatgtat cttatcatgt ctggatccgc gccgctagcg atcatccgga caaagcctgc 300
101 gcgcgccccg cccgcgcatt ggccgtaccg cccgcgcgcg ccgccccatc tcgcccctcg 360
103 ccgcgcgggc cggcgcgtta aagccaatag gaaccgcgcg cgttggtccc gtcacggccg 420
105 ggcgcagcaa ttgtggcggc gctcggcggc tcgtggctct ttcgcggcaa aaaggatttg 480
107 gcgcgtaaaa gtggccggga ctttgcaggc agcggcggcc gggggcggag cgggatcgag 540
109 ccctcgatga tatcagatca tcggatcccg gtcgactgaa aatgagacat attatctgcc 600
111 acggaggtgt tattaccgaa gaaatggccg ccagtctttt ggaccagctg atcgaagagg 660
113 tactggctga taatcttcca cctcctagcc attttgaacc acctaccctt cacgaactgt 720
115 atgatttaga cgtgacggcc cccgaagatc ccaacgagga ggcggtttcg cagatttttc 780
117 ccgactctgt aatgttggcg gtgcaggaag ggattgactt actcactttt ccgcccgcgc 840
119 ccggttctcc ggagccgcct cacctttccc ggcagcccg gacgcccgg cagagagcct 900
121 tgggtccggt ttctatgcc aaccttgtag cggaggtgat cgatcttacc tgccacgagg 960
123 ctggctttcc acccagtgac gacgaggatg aagagggtga ggagtttggt ttagattatg 1020
125 tggagcaccg cgggcacggt tgcaggtctt gtcattatca ccggaggaat acgggggacc 1080
127 cagatattat gtgttcgctt tgctatatga ggacctgtgg catgtttgtc tacagtaagt 1140
129 gaaaattatg ggcagtggtt gatagagtgg tgggtttggt gtggttaatt tttttttaat 1200
131 ttttacagtt ttgtggttta aagaattttg tattgtgatt tttttaaaag gtccctgtgc 1260
133 tgaacctgag cctgagcccg agccagaacc ggagcctgca agacctacc gccgtcctaa 1320
135 aatggcgccg gctatcctga gacgcccga atcacctgtg tctagagaat gcaatagtag 1380
137 tacggatagc tgtgactccg gtccttctaa cacacctcct gagatacacc cgggtggtccc 1440
139 gctgtgcccc attaaaccag ttgccgtgag agttggtggg cgtcgccagg ctgtggaatg 1500
141 tatcaggagc ttgcttaacg agcctgggca acctttggac ttgagctgta aacgccccag 1560
143 gccataaggt gtaaacctgt gattgcgtgt gtggttaacg cctttgtttg ctgaatgagt 1620
145 tgatgtaagt ttaataaagg gtgagataat gtttaacttg catggcgtgt taaatggggc 1680
147 ggggcttaaa gggatatata tgcgcctggg gctaactctg gttacatctg acctcatgga 1740
149 ggcttgggag tgtttggaag atttttctgc tgtgcgtaac ttgctggaac agagctctaa 1800
151 ca 1802
154 <210> SEQ ID NO: 4
155 <211> LENGTH: 532
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:

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160 <223> OTHER INFORMATION: viral vector construct
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (1)..(532)
165 <223> OTHER INFORMATION: Fig. 3 B - right end of Ar6pAE2fF sequence
168 <400> SEQUENCE: 4
169 aacctacgcc cagaaacgaa agccaaaaaa cccacaactt cctcaaatcg tcacttccgt      60
171 tttcccaagt tacgtcactt cccattttta ttaagaattc tacaattccc aacacataca      120
173 agttactccg ccctaaaacc ctgggcgagt ctccacgtaa acgggtcaaag tccccgcggc      180
175 cctagacaaa tattacgcgc tatgagtaac acaaaattat tcagatttca cttcctctta      240
177 ttcagttttc ccgcgaaaat ggccaaatct tactcggtta cgcccaaatt tactacaaca      300
179 tccgcctaaa accgcgcgaa aattgtcact tcctgtgtac accggcgcac accaaaaacg      360
181 tcacttttgc cacatccgtc gcttacatgt gtccgccac acttgcaaca tcacacttcc      420
183 gccacactac tacgtcacc ccccggttcc cagccccgc gccacgtcac aaactccacc      480
185 ccctcattat catattggct tcaatccaaa ataaggata ttattgatga tg              532
188 <210> SEQ ID NO: 5
189 <211> LENGTH: 660
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: viral vector construct
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (1)..(660)
199 <223> OTHER INFORMATION: Fig. 4 - left end of Ar6F sequence
202 <400> SEQUENCE: 5
203 catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt      60
205 ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcg cgctagcgat      120
207 atcgatccc ggtcgactga aaatgagaca tattatctgc cacggagggtg ttattaccga      180
209 agaaatggcc gccagtcttt tggaccagct gatcgaagag gtactggctg ataatcttcc      240
211 acctcctagc cattttgaac cacctaccct tcacgaactg tatgatttag acgtgacggc      300
213 ccccggaagat cccaacgagg aggcgggttt gcagattttt cccgactctg taatgttggc      360
215 ggtgcaggaa gggattgact tactcacttt tccgccggcg cccggttctc cggagccgcc      420
217 tcacctttcc cggcagccc agcagccgga gcagagagcc ttgggtcccg tttctatgcc      480
219 aaaccttgta cggagggtga tcgatcttac ctgccacgag gctggcttcc caccagtgta      540
221 cgacgaggat gaagaggggt aggagtttgt gttagattat gtggagcacc ccgggcacgg      600
223 ttgcaggtct tgtcattatc accggaggaa tacgggggac ccagatatta tgtgttcgct      660
226 <210> SEQ ID NO: 6
227 <211> LENGTH: 660
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: viral vector construct
234 <220> FEATURE:
235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (1)..(660)
237 <223> OTHER INFORMATION: Fig. 5 - left end of Ar6pAF sequence
240 <400> SEQUENCE: 6
241 catcatcaat aatatacctt attttggatt gaagccaata tgataatgag ggggtggagt      60

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243 ttgtgacgtg gcgcggggcg tgggaacggg gcgggtgacg tagggcgcgga tcaagcttat 120
245 cgataccgtc gaaacttggt tattgcagct tataatggtt acaaataaag caatagcatc 180
247 acaaatttca caaataaagc atttttttca ctgcattcta gttgtgggtt gtccaaactc 240
249 atcaatgtat cttatcatgt ctggatccgc gccgctagcg atatcggatc ccggtcgact 300
251 gaaaatgaga catattatct gccacggagg tgttattacc gaagaaatgg ccgccagtct 360
253 tttggaccag ctgatcgaag aggtactggc tgataatctt ccacctccta gccattttga 420
255 accacctacc cttcacgaac tgtatgattt agacgtgacg gccccgaag atcccaacga 480
257 ggaggcgggt tcgcagattt ttcccgactc tgtaatgttg gcgggtgcagg aagggattga 540
259 cttactcact tttccgccgg cgcccggttc tccggagccg cctcaccttt cccggcagcc 600
261 cgagcagccg gagcagagag ccttgggtcc ggtttctatg ccaaaccttg taccggaggt 660
264 <210> SEQ ID NO: 7
265 <211> LENGTH: 11
266 <212> TYPE: DNA
267 <213> ORGANISM: Human adenovirus type 5
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (1)..(11)
272 <223> OTHER INFORMATION: 11 bp repeat element in the Ela enhancer
275 <400> SEQUENCE: 7
276 aggaagtgac a 11
279 <210> SEQ ID NO: 8
280 <211> LENGTH: 24
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Viral vector sequence
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature
289 <222> LOCATION: (1)..(24)
290 <223> OTHER INFORMATION: Fig. 1C. SV40 early Poly(A) site
293 <220> FEATURE:
294 <221> NAME/KEY: polyA_site
295 <222> LOCATION: (3)..(24)
296 <223> OTHER INFORMATION:
298 <400> SEQUENCE: 8
299 gcaaaaaaaaa aaaaaaaaaa aaaa 24

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VERIFICATION SUMMARY

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Input Set : A:\4-31890A.ST25.txt

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date